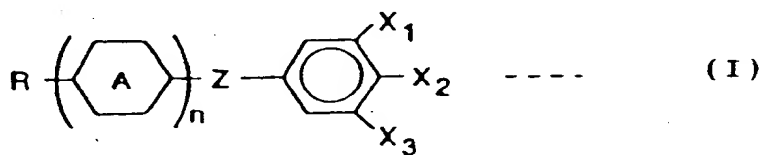


wherein in the formula (I), X_1 , X_2 and X_3 are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three X_1 , X_2 and X_3 being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and [2, 2, 2]-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2.

13. (amended) In a liquid crystal display device according to claim 12, wherein said liquid crystal composite material includes a liquid chemical compound represented by a general chemical formula (I) *anyone*



wherein in the formula (I), X_1 , X_2 and X_3 are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three X_1 , X_2 and X_3 being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can